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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/557,371	04/25/2000	Katsuhiro Ishii	P/1905-95	8208	
75	90 03/07/2002				
Ostrolenk Faber Gerb & Soffen			EXAMINER		
1180 Avenue Of The Americas New York, NY 10036-8403			KINKEAD, A	ARNOLD M	
			ART UNIT	PAPER NUMBER	
			2817		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	·	Applicant(s)			
	Office Action Summary	09	557,37	71	Ishu			
		Examine	1 / 1	4	Art Unit			
	The MAILING DATE of this communication appe Period for Reply	ars on the	cover sheet	with the co	rrespondence address			
	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE							
5) Claim(s) is/are allowed. 6) Claim(s) # II - 15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claims are subject to restriction and/or election requirement.								
Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on bjected to by the Examiner. 11) The proposed drawing correction filed on is: a) approved b) disapproved. 12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. § 119 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.								
Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). ARNOLD KINKEAD								
A	ttachment(s)			اهترا	RIMARY EXAMINE:			
16 17	Information Disclosure Statement(s) (PTO-1449) Paper No(s)	18 19 20	P) Notice o		PTO-413) Paper No(s) tent Application (PTO-152)			
	Pateht and Trademark Office D-326 (Rev. 01-01) Office Action	Summary		4	Part of Paper Nd. 12			

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DETAILED ACTION

Continued Prosecution Application

1. The request filed on 1-28-02 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/557,371 is acceptable and a CPA has been established. An action on the CPA follows.

Drawings

2. The proposed drawing correction and/or the proposed substitute sheets of drawings, filed on June 8, 2001 have been disapproved because they introduce new matter into the drawings. 37 CFR 1.121(a)(6) states that no amendment may introduce new matter into the disclosure of an application. The original disclosure does not support the showing of the connection between the phase comparator(3) and the controller(8).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 4, and 11-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kesner (US 5,663,685, of record).

The reference by Kesner discloses a PLL frequency synthesizer(see figure 2). The pll includes vco(2), bias supply(29), and phase detector with pump outputs(1) and reference oscillator input. Note in col. 8, lines 15-end for the bias supply line changes to counter the change in the control voltage.

The reference by Kesner does not show a reference divider but this element is notoriously well know to be used in PLL synthesizers to reduce the frequency and is conventional. Also not shown is the use of such a PLL in a radio communication apparatus with output buffer on the PLL output for isolation. This too is notoriously well known as PLL's serve as frequency synthesizers for radio systems and conventional make use of isolation buffers to prevent unwanted loading problems.

In light of the above it would have been obvious for one of ordinary skill in the art to have added a reference divider to the input of the PLL(or feedback branch) of Kesner and thus enhance the PLL loop frequency as desired. The use of such a PLL with buffering in a radio system is also conventional and notoriously well known in the art.

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Response to Arguments

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5. Applicant's arguments filed 11-15-01 have been fully considered but they are not persuasive.

The examiner maintains the rejection with the reference(Kesner) because no where in the claims is there a direct input to the VCO claimed. Also, examiner used this new reference because applicants changed the recitation (in original claim 1) for --charge pump output voltage and output current-- to read charge pump output signal-- in claim 11 as amended(11/15/01).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold Kinkead whose telephone number is (703) 305-3486. The examiner can normally be reached on Mon to Fri from 8:30 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal, can be reached on (703) 308-4909. The appropriate fax phone number for the organization where this application or proceeding is assigned is (703) 308-7724.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Arnold Kinkead

March 6, 2002

ARNOLD KINKEAD
PRIMARY EXAMINED

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